VARIANYAN, C.S.

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

Catalysis

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11229

Author : Vartanyan L.S., Knorre D.G., Mayzus Z.K., Emanuel' N.M.

Title : Kinetic Characteristics of n-Decane Oxidation Following the Initial

Macroscopic Stage of Catalyst Transformation

Orig Pub : Zh. fiz. khimii, 1956, 30, No 3, 665-675 (English summary)

Abstract : Co stearate and Mn laurate which catalyze oxidation of n-decame at 1400,

undergo in the course of the reaction a cycle of valency transformations which terminates by a separation of the catalyst into the precipitate (RZhKhim, 1955, 36911; 1956, 35357). Removal of catalyst precipitate (CP) does not affect the kinetics of accumulation of alcohols, carbonyl compounds, acids and esters. Concentration of peroxide increases after removal of CP to a value characteristic of non-catalyzed oxidation. It is shown by calculations that the results obtained can not explained in the scope of the generally accepted chain scheme of oxidation of hydrocarbons, since this scheme assumes that rate of accumulation of final

oxidation products, after removal of CP, should decrease, and kinetic

1/2

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry, Catalysis

B-9

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11229

curves approach the curves of non-catalyzed oxidation. The authors consider that during the initial macroscopic stage of catalyst transformation there are formed metal-free intermediate compounds which ensure progress of the process at a rate characteristic of catalyzed

oxidation, also after removal of CP.

2/2

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

· 专特的创造技术或过去的存储或法律的特殊是一种的创

Catalysis

: Referat Zhur - Khimiya, No 4, 1957, 11231 Abs Jour

: Vartanyan L.S., Mayzus Z.K., Emanuel' N.M.

: Kinetic Characteristic of Hydroperoxides as Intermediate Products of Author Title

the Reaction of Oxidation of n-Decane

Orig Pub : Zh. fiz. khimii, 1956, 30, No 4, 856-861

Abstract : Decomposition of hydroperoxide formed on oxidation of n-decane (I) at

120-140° was studied in a medium of I, oxidized to different extent. The reaction in of 1-st order and values of velocity constant decrease with increasing extent of oxidation of I. Energy of activation of hydroperoxide decomposition, with a constant extent of oxidation, is 24 keal/mole. Comparison of aummative kinetic curve of the rate of formation of final reaction products (alcohols, carbonyl compounds, acids and esters) with kinetic curve of hydroperoxide decomposition rate, shows that the main portion of final oxidation products (~ 80%) is for-

med as a result of decomposition of intermediate hydroperoxide.

1/1

VARTANYAN, L.S.

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

Catalysis

: Referat Zhur - Khimiya, No 4, 1957, 11230 Abs Jour

: Vartanyan L.S., Mayzus Z.K., Rmanuel' N.M.

: On Sequence of Formation of Oxidation Products of n-Decane Author Title

Orig Pub : Zh. fiz. khimii, 1956, 30, No 4, 862-870

To determine the sequence of formation of oxidation products of n-decane use was made of the kinetic procedure of removing from the reaction mix-Abstract

ture (at a certain moment of the reaction) the intermediate product of oxidation -- the hydroperoxide(I). Study of the subsequent kinetics of accumulation of the final reaction products shows that removal of peroxides affects mostly the kinetics of formation of alcohols, to a lesser extent the kinetics of carbonyl compounds, and has pratically no effect on kinetics of accumulation of the acids. Products of decomposition of I, formed on oxidation of decame, are alcohols and carbonyl compounds. Acids are not formed directly ton decomposition of alcohome results obtai-

ned indicate the following sequence in the formation of products:

1/2

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

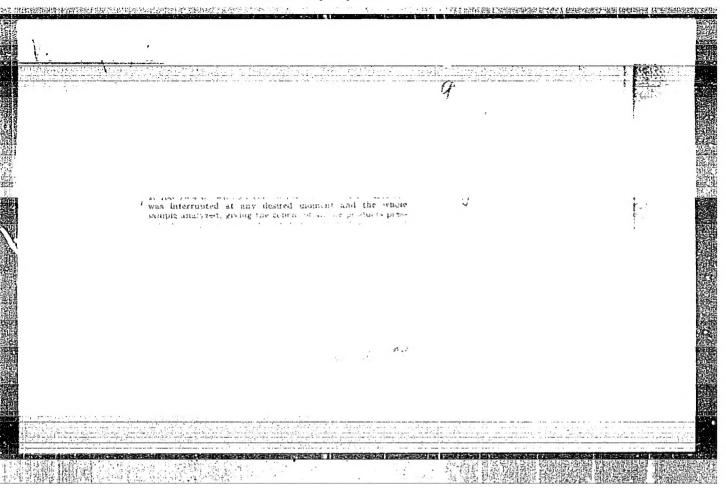
B-9

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11230

alcohols

ketones -> acids. Mathematical analysis of the form of kinetic curves of oxidation product accumulation after removal of peroxides, yields in the case of such a sequence, results that coincide with experimental data.

2/2



VARTANYAN, L.S.; EMANUEL', N.M.

Inactivation of lactic dehydrase by free radicals formed from inhibitors of radical processes. Dokl. AN SSSR 143 no.5:1215-1218 Ap '62.

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel').

(Dehydrases) (Radicals (Chemistry))

111561 \$/020/63/148/001/020/032 B144/B186

11:400 5:1140 AUTHORS:

Vartanyan, L. S., Strigun, L. M., Emanuel', N. M., Corresponding Member AS USSR

TITLE:

Kinetics of propylgallate autooxidation in aqueous solution

Akademiya nauk SSSR. Doklady, v. 148, no. 1, 1963, 97-100 PERIODICAL:

TEXT: The course of the oxidation of propyl gallate (PG) which has an antitumor and radiation-protective effect was determined polarographically in a borate buffer of pH 7.2 - 7.4 at a constant temperature of 21°C. Consistently with data published on PG in acetate buffer, the half-wave potential depended linearly on the pH of the medium within the pH range 7.1 - 8.6. The PG oxidation rate increased with increasing pH and showed a linear dependence on the OH ion concentration, which indicates that PG ions with a single charge react. The reaction is first-order with respect to the initial PG concentration. Moreover a zero-order reaction with respect to the process concentration was found, which may be explained by intermediate formation of quinone. This is converted with an increasing rate to semiquinone by reacting with PG. The temperature

Card 1/2

Kinetics of propylgallate ...

S/020/63/148/001/020/032

dependence of the oxidation rate was studied at pH 7.6 and 8.8. activation energy derived from these data was 18000 ± 700 cal/mole and is attributed to the ionized semiquinone molecule. A steep wave with a half-wave potential of 1.17 v was detected polarographically in the PG oxidate (buffer pH 7.2). By separate tests it was proved that this. wave is due to the presence of H202, and this was identified also by the qualitative reaction with $(TiO_2 + H_2SO_4)$. The presence of further oxidation products resulted from the 0.03 v difference between the half-wave potentials of ${\rm H_2O_2}$ and the PG oxidate. A complete scheme of PG oxidation in aqueous solution is given. The formation of free-radical intermediate products may explain the different behavior of phenol inhibitors in biological experiments. There are 4 figures.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute

of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED:

August 10, 1962

Card 2/2

AGATOVA, A.I.; VARTANYAN, L.S.; EMANUEL', N.M.

Cara Mark Tools of Court

Mechanism by which free radicals formed from inhibitors of radical processes interact with the SH groups of proteins. Dokl. AN SSSR 150 no.3:547-550 My '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel').

(Proteins) (Thiols) (Radicals(Chemistry))

VARTANTAN, L.S.; GONIKBERG, E.M.

Determination of the thermodynamic constants of ionization of propyl gallates in aqueous solution. Izv. AN SSSR. Ser. khim. (MIRA 17:1) no.11:2047-2049 N *63.

1. Institut khimicheskoy fiziki AN SSSR.

VARTANYAN, L.S.; GONIKBFRG, E.M.; EMANUEL', N.M.

Effect of propyl gallate on the kinetic constants of the enzymatic reduction reaction of sodium pyruvate. Dokl. AN SSSR 154 no.1:223-225 Ja'64. (MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Emanuel!).

VARTANYAN, L.S.; GONIKBERG, E.M.; EMANUEL', N.M.

Kinetics of inactivation of lactic dehydrogenase with radical products of propyl gallate autoxidation. Izv. AN SSSR. Ser. khim. no.10:1742-1748 0 '64. (MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR.

VARTANYAN, L. V., Physician

"Macro and Microscopic Structure of the Middle Membrane of the Tulmonary Artery." Sub 22 Oct 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

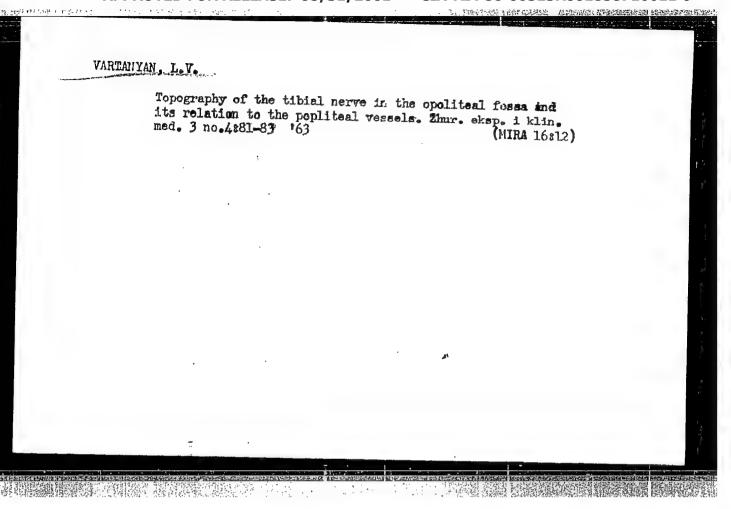
VARTAMYAN, L.V. (Yerevan, Arm. SSR, ul. Shamyana, d. 10. pod"ezd III, kv. 4)

Structure of the wall of the pulmonary artery. Arkh.anat.gist.
(MIRA 12:11)

1 enbr. 33 no.3:66-67 Jl-S "56.

1. Iz kafedry normal noy anatomii (zav. - prof.I.P.Ayvazyan)
Yerevanskogo med. instituta.
(ARTERIES, PUMONARY, anatomy and histology,
(Rus))

VARTANYAN, L.V., assistent Role of the vagus nerves in the organization of the solar plexus. Trudy Erev.med.inst. no.11:121-128 '60. (MIRA 15:11) 1. Iz kafedry normal'noy anatomii Zzav. kafedroy dotsent A.M. Akopyan) Yerevanskogo meditsinskogo instituta. (VAGUS NERVE) (SOLAR PLEXUS)

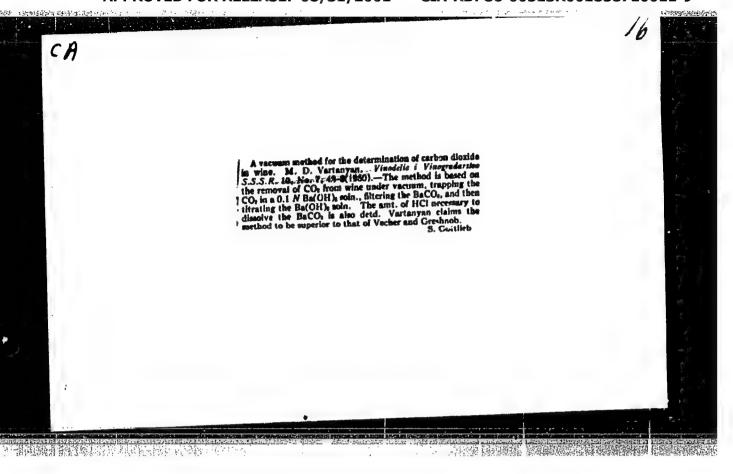


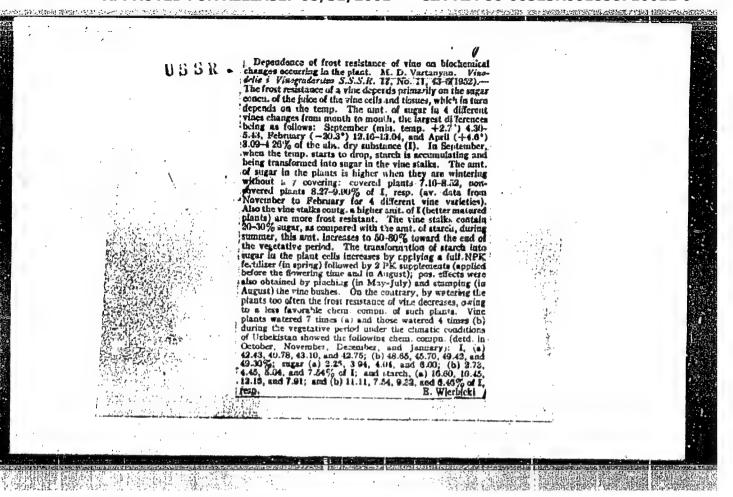
VARTANYAN, L.Ye.; kand.tekhn.nauk

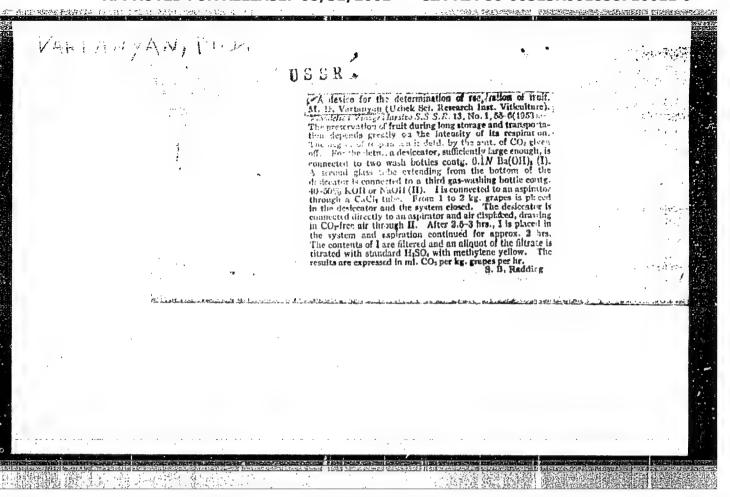
Calculating the duration of a production cycle under continuousproduction conditions. Sbor. Lauch. trud.ErPI no. 20:127-136 159. (MIRA 14:5)

"APPROVED FOR RELEASE: 08/31/2001 CIA

CIA-RDP86-00513R001858710011-9







A SMIYAN, M. D.

VARTARYAR, M. D.- "The Biochemical Processes Occurring in the Grape
Vine in Connection with Agricultural-Engineering Procedures Directed toward Increasing Its Front Resistance." His Higger Education
USSR. Central Asia State U imeni V. I. Lenin. Tashkent, 1955.
(Dissertation for the Degree of Candidate of Biological Sciences)

So; Knizhnaya Letopis!, No 3, 1956

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30066

Author

Vartanyan, M.P.

Inst Title

: The Dependence of Frost Resistance in Grape Buds on the

Concentration of Cellular Fluid.

Orig Pub

: Vinodleiye i vinogradarstvo SSSR, 1957, No 2, 37-38.

Abstract

The mineral salt and soluble sugar content in grape shoots left after frost and damage is considered as the basic substances which determine the concentration of cellular fluid. The shoots whose buds suffered from the frosts contained considerably less soluble sugar than shoots with healthy buds. The sum of soluble sugars and mineral substances in the cellular fluid of those shoots whose buds perished was 4% less than in those undaraged. This confirms the relation of frost resistance to the concentration fo cellular fluid and the content of protective substances.

Card 1/2

- 33 -

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30066

The increased cell fluid concentration in the shoots during fall, which is needed to insure greater frost resistance, may be induced by proper fertilization, timely stopping of irrigation and performing green operations at the best moment.

Card 2/2

CHEINEROV, Vasiliy Stepanovich, kand.ekonom.nauk; VARTANYAN, M.Kh., red.;

GAMZATEVA, M., tekhn.red.

[Transition from capitalism to socialism. The victory of socialism in the U.S.S.R.; lectures in the course on political economy]

Perekhodnyi period ot kapitalizma k sotsializmu. Pobeda sotsializma v SSSR; lektsii po kursu politicheskoi ekonomii. Moskva, Gos.izd-vo "Sovetskaia nauka," 1957. 46 p. (MIRA 11:1)

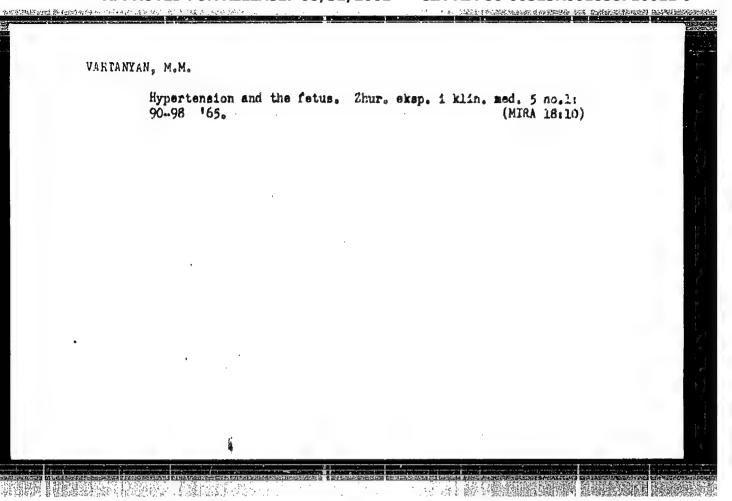
(Russia--Economic policy)

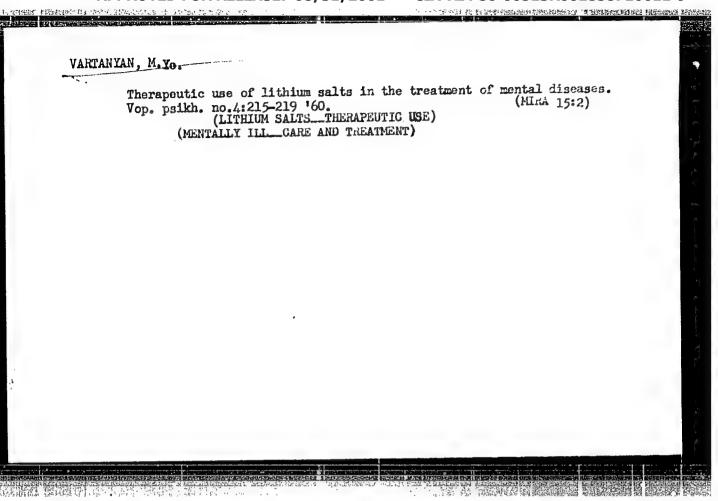
VARTANYAH, M.M.

Effect of perindum distancy on the activation on an absolution of the fetus in hypertensive women. Alone, it is no resistance. (MIRA 18:20)

1. Otdeleniye fiziologii i patologii beremennosti (sav. - rof. S.M.Bekker) i laboratoriya normal'noy i patologi haskoy fiziologii (sav. - prof. N.L.Garmsheva) Instituta alashernova i ginevologii (direktor - chlen-korrespondent AMN SCOL prof. M.J.Patrov-Madiakov) AMN SSSR, Leningrad.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710011-9"





VARTANIAN, M.Ye.; KAZANETS, E.F.; LIBERMAN, Yu.I.; FAYVISHEVSKIY, V.A.

Statistical analysis of late sequelae from a closed injury of the head. Vop. psikh. no.4:264-289 '60. (Mina 15:2) (HEAD_WOUNDS AND INJURIES)

VARTANYAN, M.Ye. (Moskva) Basic trends in present-day research in the field of the

pathogenesis of schizophrenia; from data in the foreign literature. Zhur.nevr.i psikh. 62 no.8:1236-1253 Ag '62. (MIRA 15:12) (SCHIZOPHRENIA)

CIA-RDP86-00513R001858710011-9" APPROVED FOR RELEASE: 08/31/2001

a Transport of the Advisoral Particular Established in Experience

L 16938-65 Po-L/Pa-L AFWI/AMD

ACCESSION MR: 4P5002837 S./ 063/6L/000/001./0367/0173

The state of the state

L 16938-65 ACCESSION NR: /P5002837		0	
practical importance, of whether such secondary manifestations are active participants in the pathogenic mechanisms of schizophrenia arises.			
SUMPLATION: The			
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O KEP SUV: 020	050.EH: 050	77 /S	

L 16937-65 Fa-4 AMD

ACCESSION NR: APSO02838

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TOTAL SECTION OF THE PROPERTY OF THE PROPERTY

AUT.OR: Firoimson, V. P.: Vartenyan, M. Yr. (Condidate of medical sciences)

TITLE: Achievements of the denetics and phenogenetics of certain psychic disorders

SCURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnel, v. 9, no. 4, 1964, 462-466

TOPIC TAGS: psychonourotic disorder, genetics

Abstract: This article is a survey of current concepts regarding the role of cenetic factors in the incidence of certain psychic disorders, with compassion schizophren as the line of certain psychic disorders, with compassion schizophren as the line of certain psychic disorders, with captured and interpretaring of the passonate file cyanine relationary and listed.

Stress is blaced on echiparative structes of the intriduce of manications since this permits the population of Hostic Hantons from environmental and there is no the actions of the control of the contro

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L 16937-65

ACCESSION NR: AP5002838

cies in schizophrenia victims. This disorder is considered as a group concept rather than a single, well defined illness. Orig. art. has 2 tables.

ASSOCIATION: none

SUBMITTED: 00

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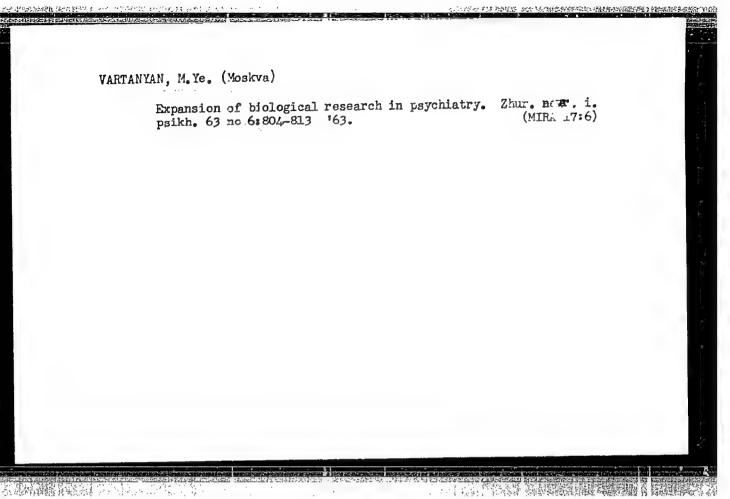
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NO REF SOV: 002

OTHER: 027

JPRS

Card 2/2



VARTANYAN, M. Ye.

VARTANYAN. M. Ye. The Problem of the Effect of Cutting Systems on Certain Operating Indexes of Machine Parts. Min Higher Education USSR. Yerevan Polytechnic Inst imeni K. Marks. Yerevan, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

So: Knizhnaya Letopis! No 3, 1956

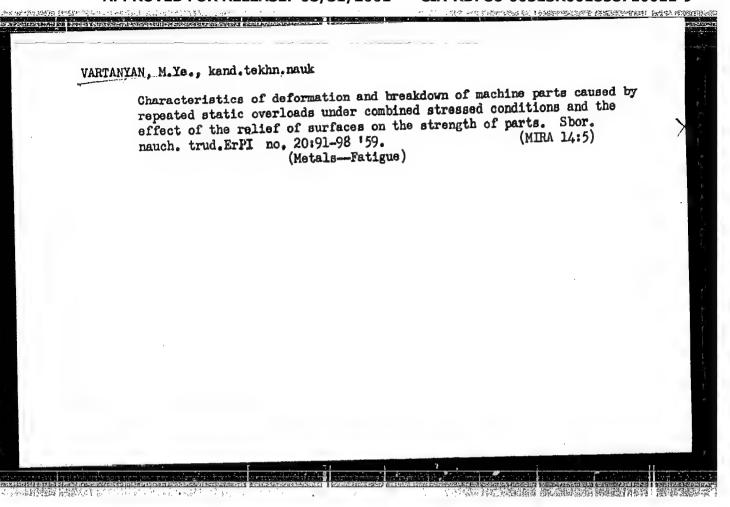
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VARTANYAN, M.Ye.

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Effect of cutting conditions on the durability of machine parts subjected to repeated static loads. Shor.nauch.trud. ErPI no.10: 73-85 *56. (MLRA 9:12)

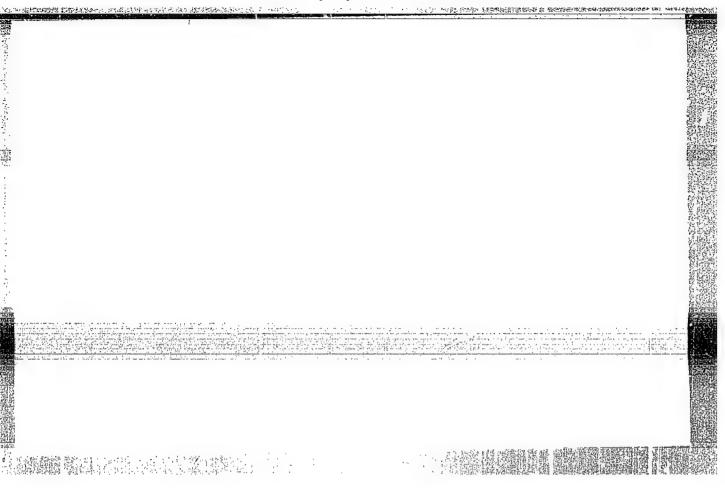
1. Kafedra tekhnilogii mashinostroyeniya Yerevanskogo politekhnicheskogo instituta.
(Metal cutting) (Strains and stresses)



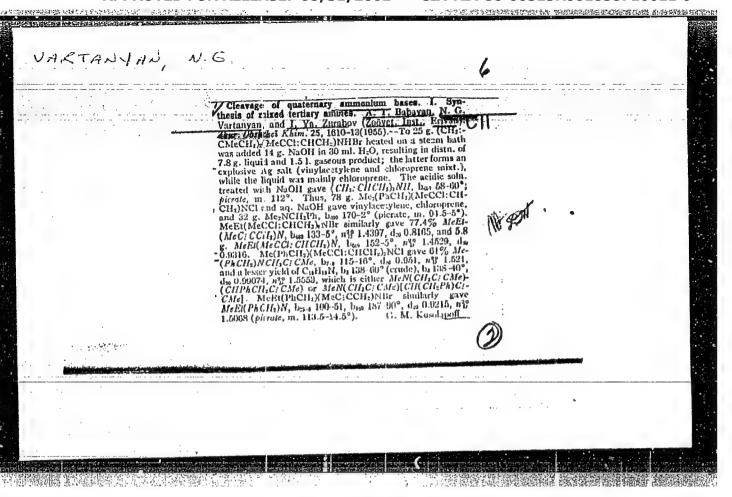
PARAYAN, A.T.; MERYAN, G.M.; VARTANYAN, N.G.

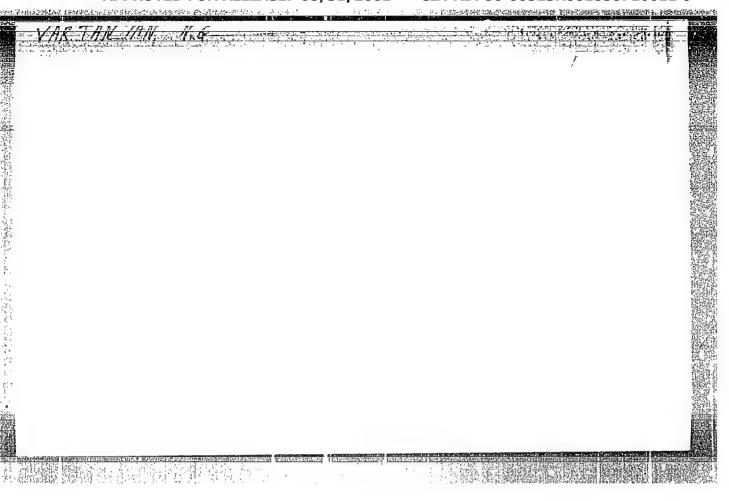
Isomerization of 1-dialkyl uninobutenes-2. Dokl. AN Arm. SSR 19 no.3: (NIRA 8:7)

1. Predstavleno A.L. Mndshoyanom. (Butene)



CIA-RDP86-00513R001858710011-9





BABAYAN, A.T.; MARTIROSYAN, G.T.; VARTANYAN, N.G.; INDZHIKYAN, M.G.

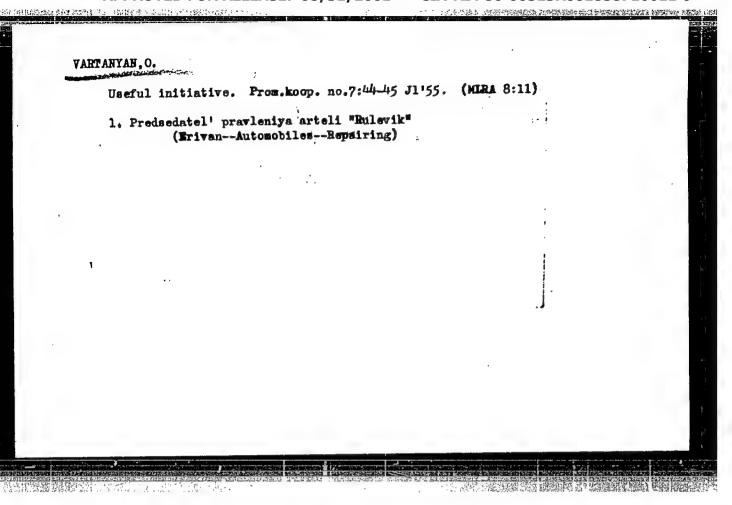
Amines and ammonium compounds. Part 12: Synthesis of some amines. Zhur.ob.khim. 30 no.7:2263-2267 J1 60. (MIRA 13:7)

1. Institut organicheskoy khimii Akademii nauk Armyanskoy SSR.
(Amines)

KASHARSKIY, E.G.; VARTAN'YAN, N.V.

Characteristics of a series of turbogenerators with an increased power rating. Shor. rab. po vop. elektromekh. no.6:200-215 '61. (MIRA 14:9)

(Turbogenerators)

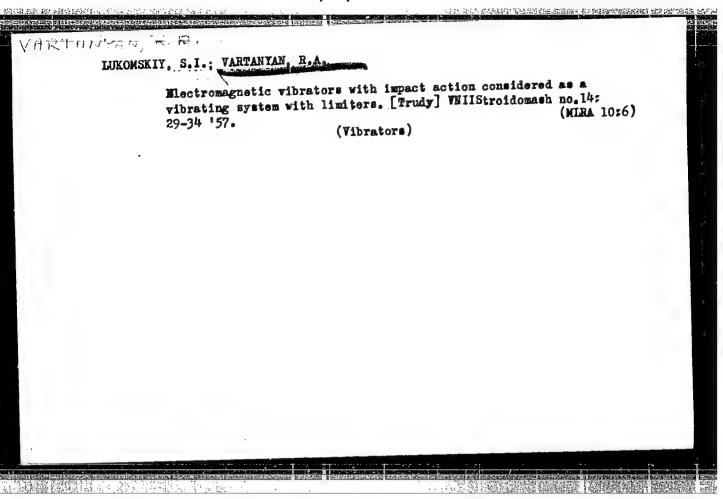


VARTANYAN, O.A.; KOLBINSKIY, P.V.

Improving the living conditions of railroad workers. Pat' i put. (MIRA 15:2)

l. Zemestitel' nachal'nika Ostrogozhskoy distantsii puti,
Yugo-Vostochmoy dorogi (for Vartanyan). 2. Smotritel' zdaniy
Ostrogozhskoy distantsii puti, Yugo-Vostochmoy dorogi (for
Kolbinskiy).

(Railroads—Buildings and structures)



CIA-RDP86-00513R001858710011-9

VARTANYAN, S. A.

Cand Chem Sci

Dissertation: "Syntheses and Transformations of Vinyl-Ethi-nyl-Carbinols Containing Alkosy Groups."

29 Nov. 49

Inst of Organic Chemistry, Acad Sci US3R

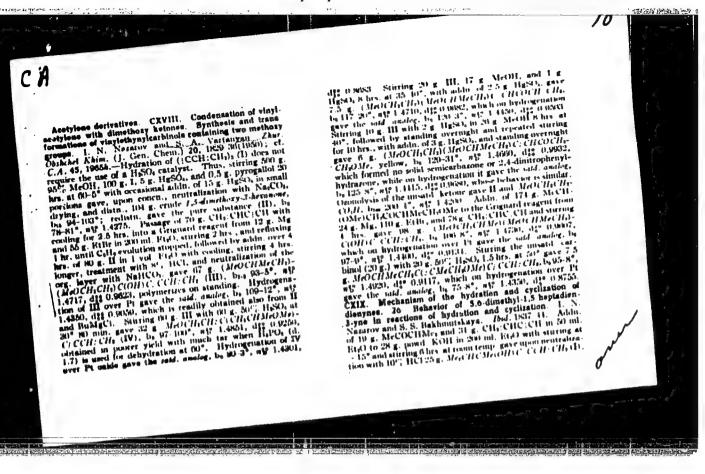
SO Vecheryaya Moskva Sum 71

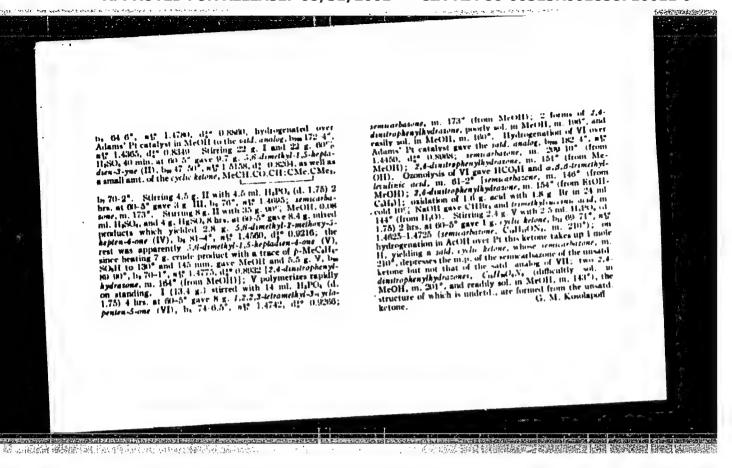
VARIAHYAN, S. A.

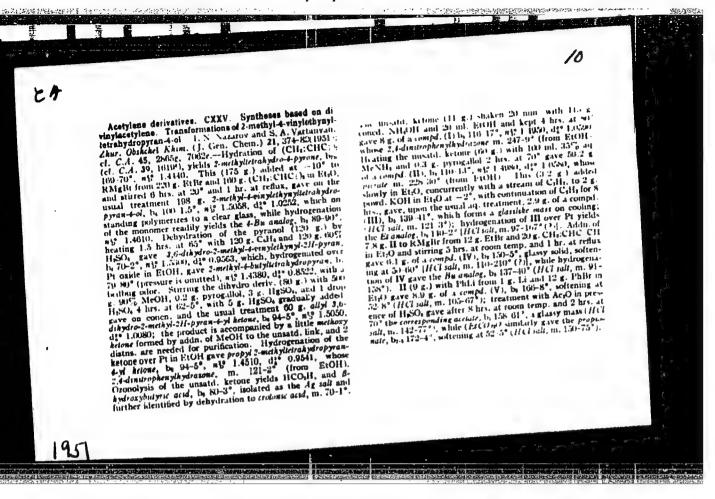
"Acetylene derivatives. 117. Synthesis and transformations of vinyl ethinyl carbinols containing a methoxy group." I. N. Nazarov and \underline{S}_{*} A. Vartanyan. (p. 1582)

SO: Journal of General Chemistry (Zhurnal Coshchei Khimii) 1950, Vol 20, No 9.

CIA-RDP86-00513R001858710011-9

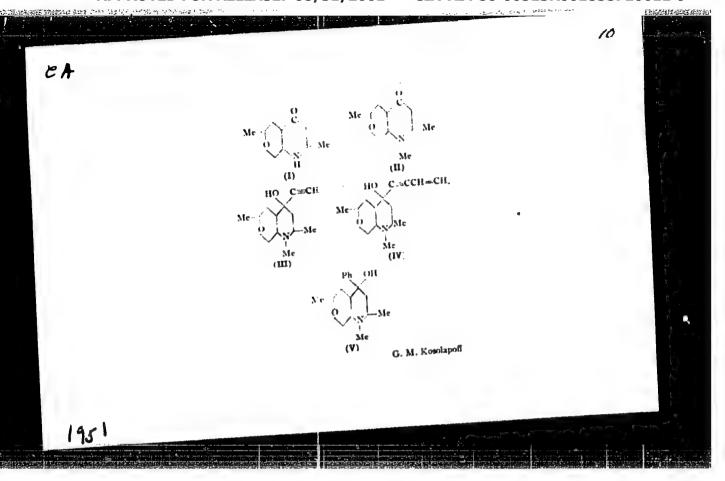






"APPROVED FOR RELEASE: 08/31/2001 CI/

CIA-RDP86-00513R001858710011-9



s/079/60/030/04/33/080 B001/B016

Matsoyan, S. G., Chukhadzhyan, G. A., Vartanyan, S. A. AUTHORS:

Reaction of Acetylene Carbinols With Acetic Acid in the Presence of Mercuric Acetate, and the Formation Mechanism TITLE:

of Acetoxy Ketones 1

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1202-1207 PERIODICAL:

TEXT: In continuation of the papers by I. N. Nazarov (Ref. 1) and G. F. Hennion (Ref. 2) dealing with the synthesis of acetyl carbinol acetates, the authors of the present paper performed a more convenient synthesis of acetoxy ketones by boiling the acetic acid solutions of acetylene alcohols in the presence of mercuric acetate, with subsequent fractionation of the reaction mixture. The corresponding acetates of the tertiary acetyl carbinols thus resulted from dimethyl-, methyl-ethyl-, methyl-isopropyl-, diisopropyl-, methyl-phenyl-ethynyl carbinol as well as from 1-ethynyl-cyclohexanol-1. By heating the disubstituted butin-2-ol-1 with glacial acetic acid in the presence of mercuric acetate, methyl-\$acetoxy-ethyl ketone is formed. On reaction of the acetate of butin-2-ol-

Card 1/3

Reaction of Acetylene Carbinols With Acetic Acid S/079/60/030/04/35/080 in the Presence of Mercuric Acetate, and the B001/B016 Formation Mechanism of Acetoxy Ketones

with mercury salt, the addition product (I) was separated:

CH₃-C=C CH₂OCOCH₃

OCOCH₃

(I)

Scheme 1 illustrates the mechanism of this reaction which is confirmed by schemes 2 and 3. Methyl- β -acetoxy-ethyl ketone (V) is obtained, in this connection, as end product. The formation mechanism of the acetates of acetyl carbinols from monosubstituted acetylene alcohols on reaction with acetic acid in the presence of mercuric acetate may be illustrated in steps by scheme 5. All resultant α -acetoxy ketones were hydrolyzed by aqueous alcoholic alkali lye to give the corresponding α -keto alcohols (Table). There are 1 table and 10 references 6 of which are Soviet.

Card 2/3

Reaction of Acetylene Carbinols With Acetic Acid in the Presence of Mercuric Acetate, and the Formation Mechanism of Acetoxy Ketones

S/079/60/030/04/33/080 B001/B016

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Armyanskoy SSR (Institute of Organic Chemistry of the Academy of Sciences, Armyanskaya SSR)

SUBMITTED: April 20, 1959

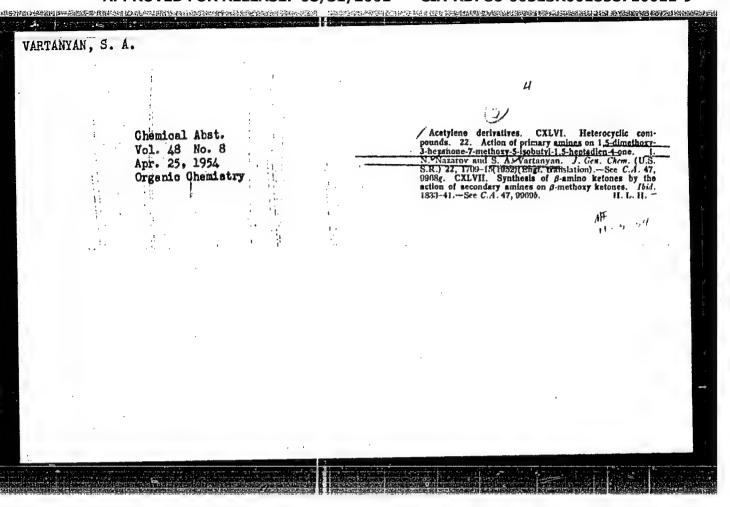
Card 3/3

"AMAROV, I.N., UNRTANYAN, S.A.

Quinoline Derivatives

Acetylene derivatives. Part 145. Heterocyclic compounds. No. 21. Synthesis and transformations of 1,2,6,6-tetrametryl-7-oxa-4-ketodekahydroquinoline., Zhur., ob., khim., 22, no.8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1953, Uncl.

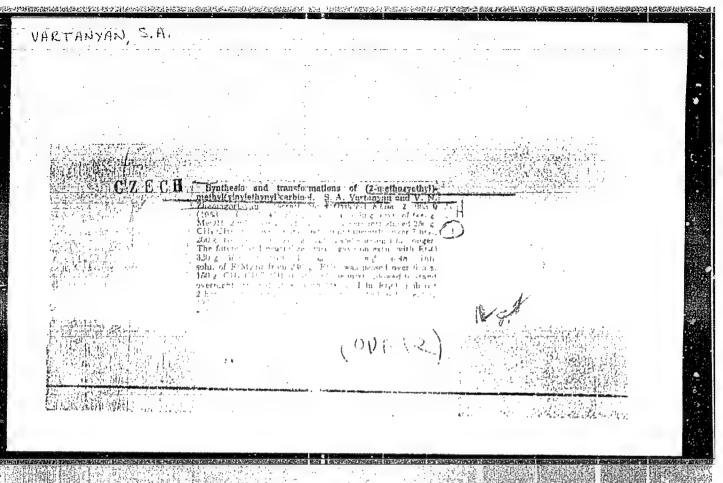


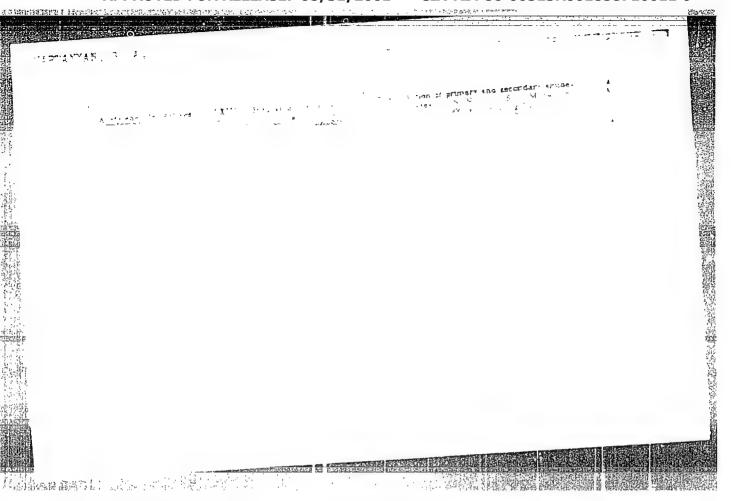
Acetylene derivatives. CILVII. Synthesis of A-amino ketones by the action of secondary enines on A-methoxy ketones. Zhur. Obshchey Khin. 22. 1794-1803 '52. (CA 47 no.19:9969 '53)

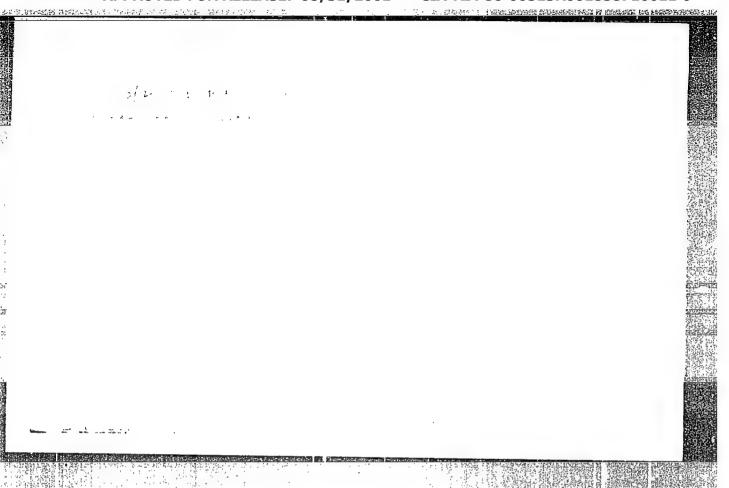
NAZAROV, I.N.; VARTANYAN, S.A.

Acetylene derivatives. Part 149. Synthesis of -amino ketones by the reaction of secondary amines with -methoxyketones and .-unsaturated ketones. Ixv. AE SSSR. Otd.khim.nauk. no.2:314-320 Mr-Ap '53. (MLRA 6:5)

1. Khimicheskiy institut Akademii nauk Armyanskey SSSR. (Ketones)







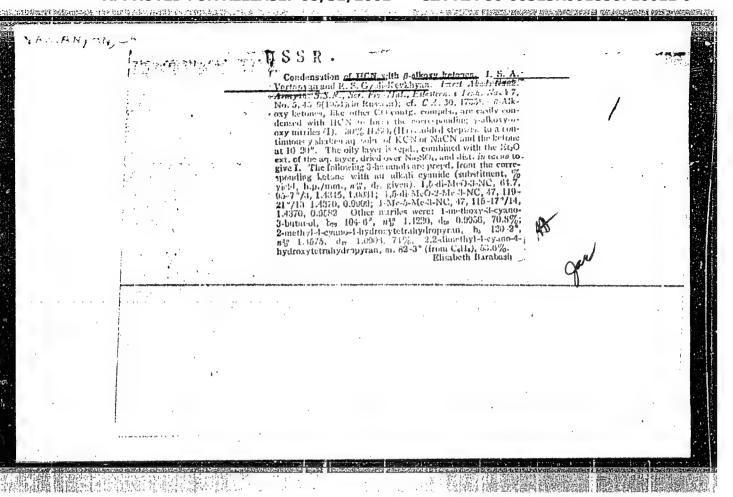
NAZAROV, I.N.; MATSOYAN, S.G.; VARTANYAN, S.A.

Acetylene derivatives. Part 164. Action of primary and secondary amines on tetrahydro-4-pyrones. Zhur.ob.khim.23 no.12:1990-1994 D *53. (MLRA 7:2)

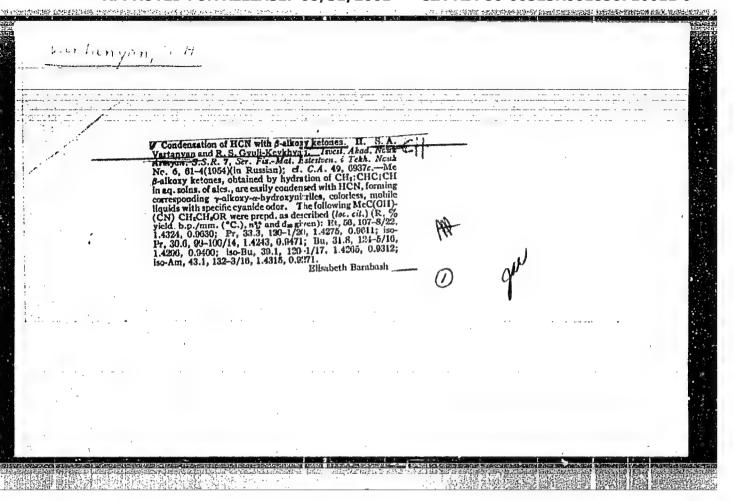
1. Institut organicheskoy khimii Akademii nauk SSSR. (Pyrones) (Amines)

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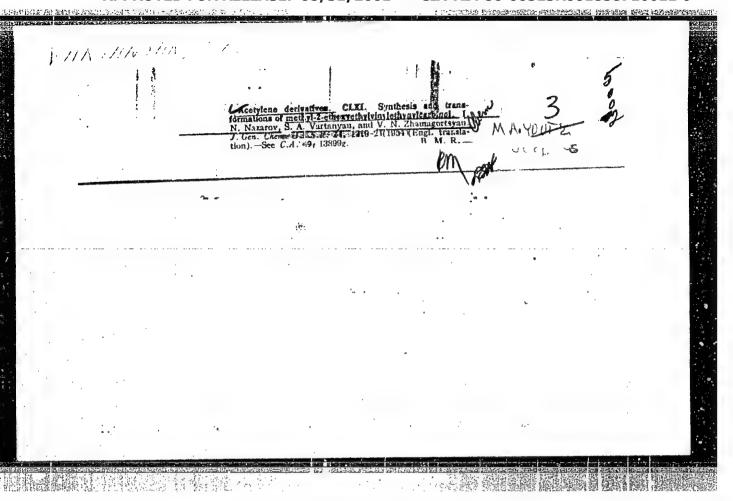
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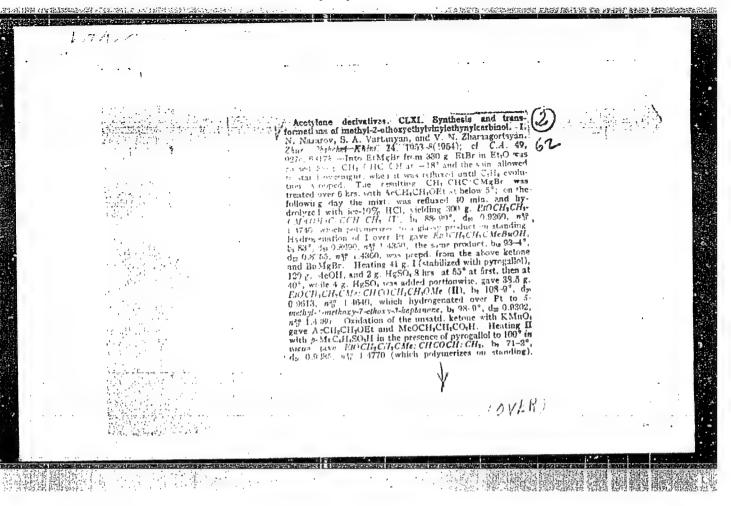


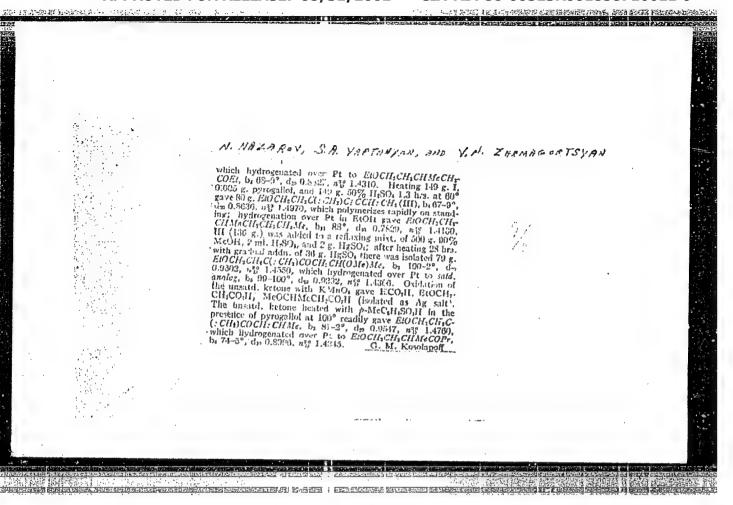
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VARTANYAN, SARKID AMBARTSUMOVICH

VARTANYAN, Sarkid Ambartsumovich (Chemical Inst of Acad Sci AR SSR). Academic degree of Doctor of Chemical Sciences based on his defense, 31 March 1955, in the Council of the Inst of Organic Chemistry, Acad Sci USSR, of his dissertation entitles: "Syntheses and convertation of alkozyketones and vynilacetylene alcohols with alkoxyl groups."

For the Academic Degree of Doctor of Sciences.

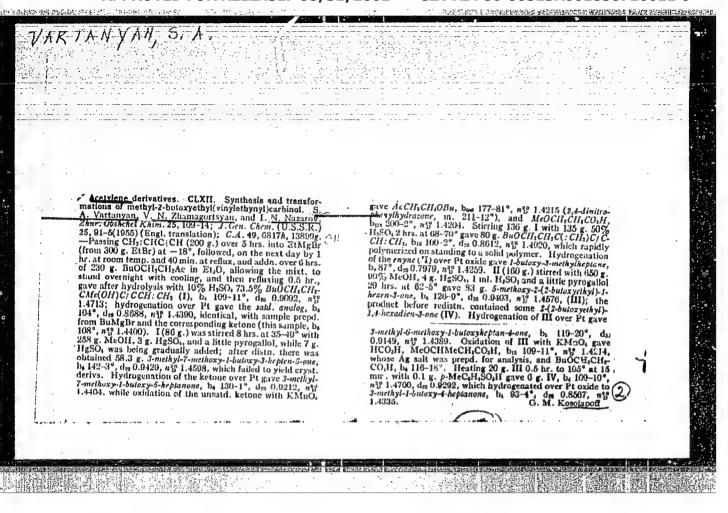
Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No.8, 14 April 1955 Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

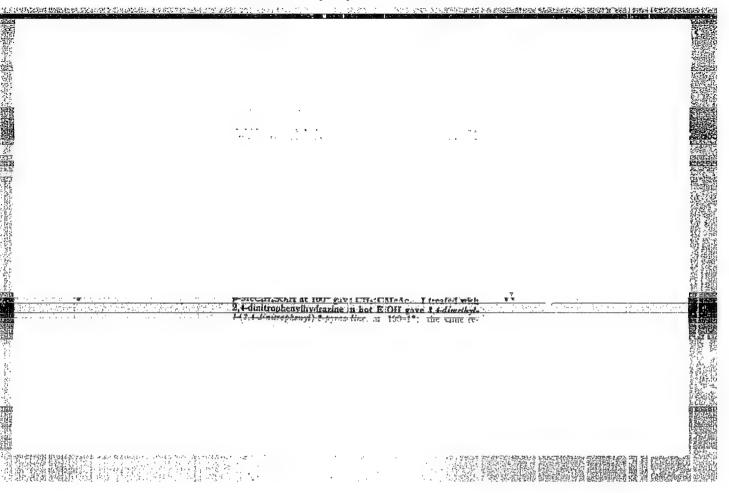
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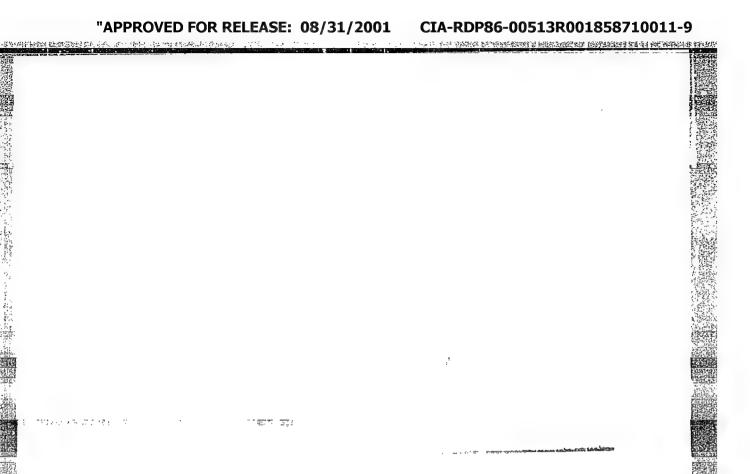
MATSOYAN, S.G.; VARTANYAN, S.A.

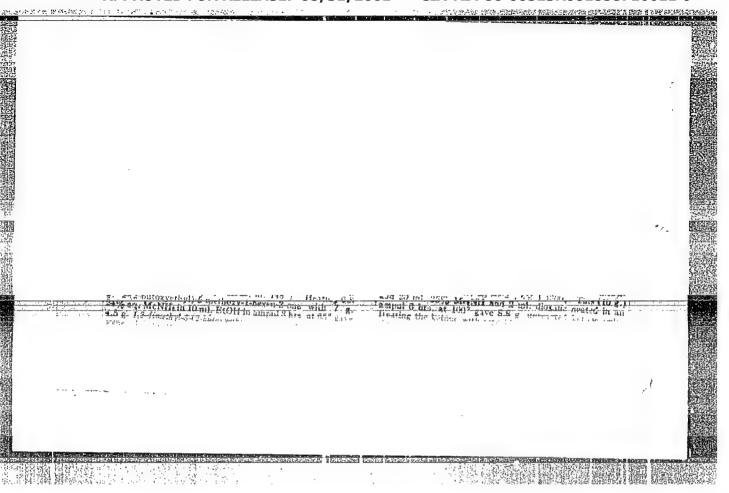
Transformations of methyl- \$\beta\$ -alkoxyethylketones. Isv. AN Arm. SSR. Ser. FMET nauk 8 no.2:31-36 Mr-Ap \$155. (MIRA 8:7)

1. Khimicheskiy institut Akademii nauk Armyanskoy SSR. (Ketones)









VARTANYAN, S.A.; MATSOYAN, S.G.; MUSAKHANYAN, G.A.

Isomerization of 1-dialklamine-2, 4 diene systems. Izv. AN Arm. SSR. Ser. FMET Nauk 9 no.10:29-35 156. (MIRA 10:4)

1. Khimicheskiy institut AN Armyanskoy SSR. (Isomerization)

VARTANYAN, S.A.: BADANYAN, Sh.O.

Addition of secondary amines to vinyl-acetylene alcohols. Izv. AN Arm. SER. Ser. FMST nauk 9 no.10:107-111 '56. (MLRA 10:4)

1. Khimicheskiy institut AN Armyanskoy SSR. (Vinyl compounds) (Amines)

Synthesis and conversion of β-alkoxy ketones. Trudy Inst.khim.AN Gruz.SSR 12:181-203 56. (MIRA 10:5)

1. Institut khimii Akademii nauk Armyanskoy SSR. (Ketones)

" IN THE WHOLE

VARTANYAN, S. C.

USSR/Chemistry of High Molecular Substances.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27055.

Vartanyan, S.A., Pirenyan, S.K. Academy of Sciences of Armenian SSR. Author Inst Title

To The Question of Polymerization Mechanism of

Acetylene.

Orig Pub: Dokl. AN ArmSSR, 1956, 23, No. 1, 23 - 28.

Abstract: The authors give an account of views of various

investigators on the mechanism of acetylene (I) pelymerization and assume that the mechanism of I pelymerization in presence of Cut is an ion mechanism: first the M -complex of I is formed in the result of the addition of I to Cut, this complex is converted into a carbonium ion, which is stabilized later by producing the n-complex of vinylacetylene. The latter

Card 1/2

VARTANYAN, S.A.; KHAMAGORTSYAN, V.N.; MESROPYAN, E.G.

The chemistry of vinylacethylene. Report No.3: Aminomethylation of methyl- \$\beta\$ -alkoxyethylketones. Izv. &N Arm. SSR. Ser. khim. nauk 10 no.1:65-70 '57. (MERA 10:9)

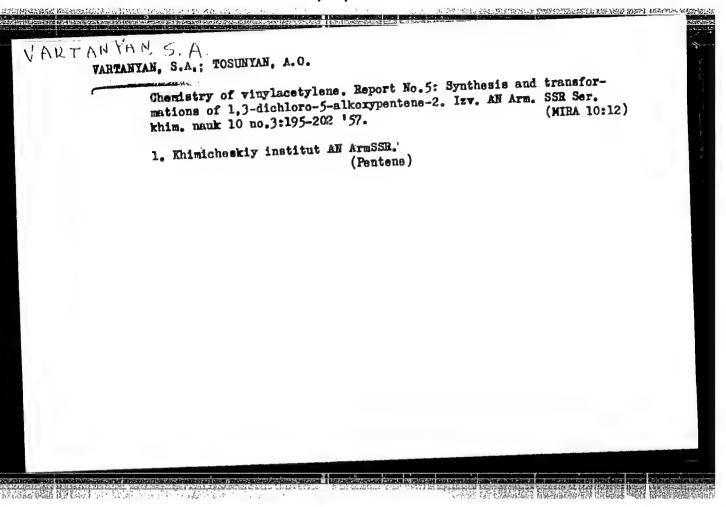
1. Khimicheskiy institut Akademii nauk Armyanskoy SSR. (Pentanone) (Methylation)

VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.; BADANYAN, Sh.O.

Chemistry of vinylacetylene. Report No.4: Synthesis and transformation of 1-alkoxypentene-4-yne-2. Izv. AN Arm. SSR Ser. khim. nauk 10 no.2:125-130 '57. (MIRA 10:12)

1. Khimicheskiy institut AN ArmSSR. (Pentene)

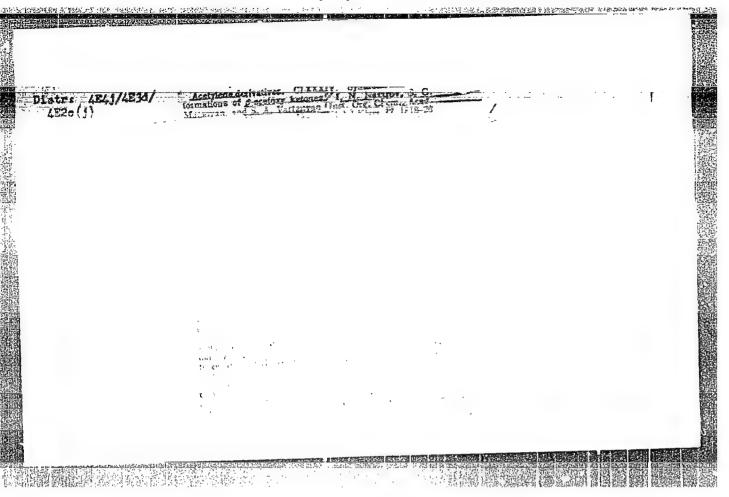
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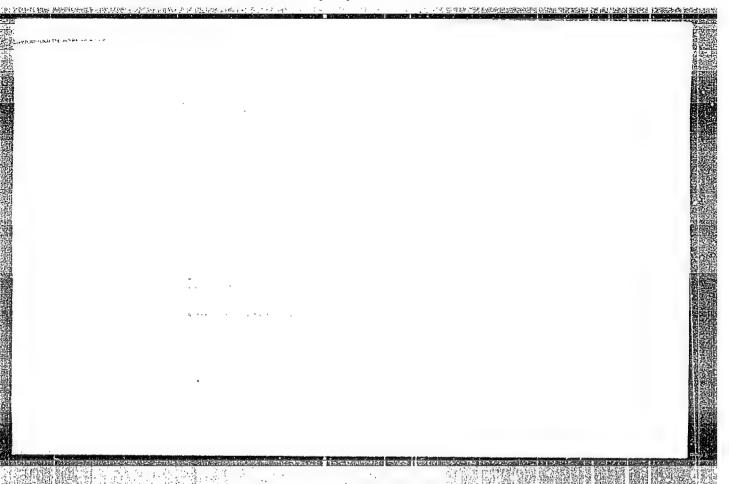


VARRANYAN, S.A.; BADANYAN, Sh.O.

Chemistry of vinyl acetylene, Beport No.6: Addition compounds of secondary arines with vinyl acetylene alcohola, Izv. AN Arm. SSR. Ser. khim. nauk v.10 no.5:347-352 '57. (MIRA 11:1)

1. Khimicheskiy institut AN ArmSSR. (Butenyne)





VARTANTAN, SA.

AUTHOR:

79-11-10/56 Mazarov, I. W. (Deceased), Matsoyan, S. G.

Vartanyan, S. A., Zhamagortsyan, V. H.

TITLE:

Derivatives of Acetylane (Proisvodnyje atetilena). 100, Southesis and Conversions of 3-Vischethin/litetralydrofuran-

-3-ols (189. Sinter i prevrashcheniya 3-viniletiniltetragydro-

ruran-j olov).

PERIODICAL:

Zhurnal Obshche/ Khimii, 1957. Vol. 27, Nr 11,pp. 2961-2969(USSR)

ABSTRACT:

The authors succeeded in bringing about the synthesis of 3-vinyl--ethinyltetrahydrofurfuranols-3- with a yield of 90% by the action of magnesium bromovinylacetylene upon tetrahydrofurfurane -3-. In this manner they obtained 3 vinylethin, ltetrahydrofurfuranols -3-which formed the corresponding 3- butyltetrahydrofurfuranols -3- on hydrogenation with a Ft - catalyst after taking up 3 Mol. hydrogen. On heating the anhydrods methylacoholicitation in the presence of mercary sulfate the viaylethingltetrahydrofurfuranols as well as other vinylethinglearbinols yield dienes (CnH2n-2). In the destillation over potassium bisulfate the, are dehydrated and yield the corresponding acet, lenes. On hydrogenation in alconolpolations in the presence of a platinum catalyst these acetylenes take up four molecules of hydrogen and form the corresponding 3 - but/ltstrah/drofurfarance. Thus quite a number of 3-

Card 1/2

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CIA-RDP86-00513R001858710011-9" APPROVED FOR RELEASE: 08/31/2001

Derivatives of Acetylers, 189. Synthesis and Conversions of 3-Vinylethinyltetrahydrofuran-3-ols

79-11-10/56

vinylethinglhydrofurfuranols - 3 - was synthesized and some of their conversions were investigated (as by isomerization, dehydration, hydration or the corresponding acetylene derivatives and hydrogenation.). There are 3 references, 2 of which are Slavic.

ASSOCIATION: Institute of Organic Chamistry AN USSR imeni N. D. Zelinskiy and Chemical Institute All Armenian SSR (Institut organicheskoy khimii imeni N. D. Belinskogo Akademii nguk SSSR i Khimicheskiy institut Akademii mush Arayanshoy SSR).

SUBLITTED:

October 15, 1956

AVAILABLE:

Library of Congress

1. Acetylene derivatives 2. 3-Vinylethinyltetrahydrofuran-3-ols-Synthesis

Card 2/2

Mechanism no.2:81-8	of acetylene polymerization. Dokl. AN Arm. SSR 27 (MIRA 11:10)				
l.Khimich Tarayan.		t AN Armyanskey SSE (Polymerization)	d. Predstavlene V.M.	V.M.	
	(2004) 2020)	(-03, 20, 100, 100, 100, 100, 100, 100, 100,			
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VARTANYAN, S.A.: SHAROYAN, E.G.

Scintillation properties of 2,5-diphenylfuran. Dokl.AN Arm.SSR
27 no.5:287-288 '58. (MIRA 12:5)

1. Fizicheskiy institut AN ArmSSR. Predstavleno N.M.Kocharyanom. (Puran)

自己**是是一种**是一种的一种,这个种种的一种,但是一种的一种,但是一种的一种的一种,但是一种的一种的一种,但是一种的一种的一种,但是一种的一种,但是一种的一种,但是

TO THE REPORT OF THE PERSON OF

Nazarov, I. N., (deceased), Vartanyan, S.A., SOV/79-28-10-26/60 .UTHORS: Matsoyan, S. G. Derivatives of Acetylene (Proizvodnyye atsetilena) CXCIV. Hydration of Divinyl Acetylene and Vinyl Isopropenyl TITLE: Acetylene in Alcohol Solutions (CXCIV. Gidratatsiya divinilatsetilena i vinilizopropenilatsetilena v spirtovykh rastvorakh) Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2757-2766 PERIODICAL: (USSR) Nazarov and his collaborators have demonstrated several times that the divinyl acetylenes easily hydratize and form ABSTRACT: dienes on their heating in aqueous methanol solution in the presence of sulfuric acid and mercury sulfate. The divingl acetylene and the symmetrical dienes are the most difficult ones to hydratize. The dienes formed accumulate methanol under certain conditions of reaction and are transformed into β-methoxy ketones (Scheme 1). It was only a natural consequence to carry out this hydration also in other alcohols in order to obtain different β -alkoxy ketones. It turned out that, depending on the conditions of the reaction, these Card 1/3

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Derivatives of Acetylene. CXCIV. Hydration of SOV/79-28-10-26/60 Divinyl Acetylene and Vinyl Isopropenyl Acetylene in Alcohol Solutions

ketones, as well as tetrahydro-y-pyrones, are formed. In the case of a ramification and a higher molecular weight the velocity of hydration is slowed down. Divinyl acetylene and vinyl isopropenyl acetylene thus are hydratized to the corresponding dienones on their heating in aqueous ethanol, butanol, and isopropenyl alcohol in the presence of mercury sulfate and sulfuric acid. The divinyl acetylene yields the vinyl propenyl ketone and the vinyl isopropenyl acetylene yields the propenyl isopropenyl ketone. The dienes formed affiliate one or two alcohol molecules, depending, on the conditions of the reaction, and are transformed into β -alkoxy ketones. 2-methyl-tetrahydro-4-pyrone (50% yield) is formed as the only reaction product of the hydration of divinyl acetylene in 50% methyl and ethyl alcohol. The alkoxy group arranges itself always in the β -position to the carbonyl group in the affiliation of the alcohols to the dienes. All synthesized β-alkoxy ketones react with primary and secondary amines under the formation of 4-piperidones or $\beta\text{-amino}$ ketones. There are 6 references, 6 of which are Soviet.

Card 2/3

Derivatives of Acetylene. CXCIV. Hydration of Divinyl SOV/79-28-10-26/60 Acetylene and Vinyl Isopropenyl Acetylene in Alcohol Solutions

ASSOCIATION: Khimicheskiy institut Akademii nauk Armyanskoy SSR

(Chemical Institute of the Academy of Sciences Armyanskaya

SSR)

SUBMITTED: October 15, 1957

Card 3/3

VARTANTAN, S.A.; TERZYAN, A.G.

Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and conversions of Chemistry of Vinyl acetate. Report no.7: Synthesis and Chemistry of Vinyl

VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.

Chemistry of vinyl acetate. Report No.8: Synthesis and conversions of vinylacetylene alcohols, containing &-alkoxy groups, Isv. AN Arm, SSR. Khim. nauki 11 no.2:99-108 '58. (MIRA 11:11)

1. Khimicheskiy institut AN ArmSSR. (Butenyne)

VARTANTAN, S.A.; TOSUMYAN, A.O.

Chemistry of vinylacetylene. Report No.9: Conversions of 1,3dichloro-5-alkoxy-2-pentanone. Inv. All Arm.SSR. Khim.nauki 11
no.3:177-184 '58. (MIRA 11:11)

1. Khimicheskiy institut AN ArmSSR.
(Pentanone)

VARTANYAN, S.A.; BADANYAN, Sh.O.

Chemistry of vinylacetylene. Report No.16: Addition of secondary amines to ethers of vinylacetylene alcohols and hydration of the formed ethers of acetylene amine alcohols. Izy. AN Arm.SSR. (MIRA 11:11)

1. Institut organicheskoy khimii AN ArmSSR. (Acetylene)

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VARTANYAN, S.A.; TOSUNYAN, A.O.

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Chemistry of vinylacetylene. Report No. 11: Synthesis and conversions of 1,3-dichloro-2-penten-5-ol. Isv. AN Arm. SSR. Khim.nauki 11 no.4: 263-271 158.

1. Institut organicheskoy khimii AN ArmSSR. (Pentenol)

VARTANYAN, S.A.; BAHANYAN, Sh.O.

Chemistry of vinyl acetylene. Report No.7: Addition of dimethylamine to divinylacetylene hydrocarbons. Ixv.AN Arm. dimethylamine to divinylacetylene hydrocarbons. Ixv.AN Arm. dimethylamine to divinylacetylene hydrocarbons. Ixv.AN Arm. dimethylamine in the same of the same

NAZAROV, I.N. [deceased]; VARTANYAN, S.A.; MATSOYAN, S.G.

Acetylene derivatives. Part 194: Hydration of bivinyl acetylene of the state of the state